



EXPRESS MAIL LABEL NO.: EV 485 808 658 US

Form PTO-1449

Sheet 1 of 19

Applicant: William J. Ketcherside, Jr., et al.

Serial No.: 10/773,106

Att'y Docket No.: 15226.25.1

Filing Date: 02/05/2004

Group: 2632

Confirmation No.: 3980

For: SYSTEM, METHOD, AND COMPUTER PROGRAM FOR
INTERFACING AN EXPERT SYSTEM TO A CLINICAL
INFORMATION SYSTEM

INFORMATION DISCLOSURE CITATIONS MADE BY APPLICANT

U.S. Patent Documents

Examiner Initial*	Patent Number	Issue Date	Name	Class	Sub Class	Filing Date	
<u>D!</u>	A1.	4,290,114	09/15/81	Sinay	364	900	07/01/76
—	A2.	4,839,822	06/13/89	Dormond, et al.	364	513	08/13/87
—	A3.	5,018,067	05/21/91	Mohlenbrock, et al.	364	413.02	07/29/87
—	A4.	5,255,187	10/19/93	Sorensen	364	413.02	04/03/90
—	A5.	5,301,105	04/05/94	Cummings, Jr.	364	401	04/08/91
—	A6.	5,473,537	12/05/95	Glazer, et al.	364	419.2	04/12/95
—	A7.	5,517,405	05/14/96	McAndrew, et al.	364	401	10/14/93
—	A8.	5,551,436	09/03/96	Yago	128	670	06/07/94
—	A9.	5,583,758	12/10/96	McIlroy, et al.	395	202	06/07/95
—	A10.	5,737,539	04/07/98	Edelson, et al.	395	203	10/28/94
—	A11.	5,764,923	06/09/98	Tallman, et al.	395	203	11/22/95

Examiner:

Daryl Boyle

Date Considered:

12/5/05

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

EXPRESS MAIL LABEL NO.: EV 485 808 658 US

Form PTO-1449

Sheet 2 of 19

Applicant: William J. Ketcherside, Jr., et al.

Serial No.: 10/773,106

Att'y Docket No.: 15226.25.1

Filing Date: 02/05/2004

Group: 2632

Confirmation No.: 3980

For: SYSTEM, METHOD, AND COMPUTER PROGRAM FOR
INTERFACING AN EXPERT SYSTEM TO A CLINICAL
INFORMATION SYSTEM

<u>D.P.</u>	A12.	5,833,599	11/10/98	Schrier, et al.	600	300	04/09/96
	A13.	5,839,438	11/24/98	Graettinger, et al.	600	300	09/10/96
	A14.	5,845,255	12/01/98	Mayaud	705	3	10/02/97
	A15.	5,908,383	06/01/99	Brynjestad	600	300	09/17/97
	A16.	6,009,420	12/28/99	Fagg, III, et al.	706	45	10/07/97
	A17.	6,029,138	02/22/00	Khorasani, et al.	705	2	08/15/97
	A18.	6,049,794	04/11/00	Jacobs, et al.	706	45	12/09/97
	A19.	6,188,988	02/13/01	Barry, et al.	705	3	03/10/00
	A20.	6,234,964	05/22/01	Iliff	600	300	03/13/98
	A21.	6,247,004	06/12/01	Moukheibir	706	46	08/20/99
	A22.	6,272,481	08/07/01	Lawrence, et al.	706	45	09/14/98
	A23.	6,317,719	11/13/01	Schrier, et al.	705	2	11/10/98
	A24.	6,443,889	09/03/02	Groth, et al.	600	300	02/10/00
	A25.	6,482,156	11/19/02	Iliff	600	300	03/05/01
<u>↓</u>	A26.	2001/0050610	12/13/01	Gelston	340	5.53	05/30/01

Examiner:

David Bone

Date Considered:

12/5/05

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

EXPRESS MAIL LABEL NO.: EV 485 808 658 US

Form PTO-1449

Sheet 3 of 19

Applicant: William J. Ketcherside, Jr., et al.

Serial No.: 10/773,106

Att'y Docket No.: 15226.25.1

Filing Date: 02/05/2004

Group: 2632

Confirmation No.: 3980

For: SYSTEM, METHOD, AND COMPUTER PROGRAM FOR
INTERFACING AN EXPERT SYSTEM TO A CLINICAL
INFORMATION SYSTEM

<u>DP</u>	A27.	2002/0002472	01/03/02	Abraham-Fuchs	705	3	04/18/01
<u> </u>	A28.	2002/0002473	01/03/02	Schrier, et al.	705	3	04/24/01
<u> </u>	A29.	2002/0040282	04/04/02	Bailey, et al.	702	188	03/22/01
<u> </u>	A30.	2002/0080189	06/27/02	Dvorak, et al.	345	810	12/10/01
<u> </u>	A31.	2002/0083075	06/27/02	Brummel, et al.	707	102	12/05/01
<u> </u>	A32.	2002/0091687	07/11/02	Eglington	707	5	09/14/01
<u> </u>	A33.	2002/0099273	07/25/02	Bocionek, et al.	600	300	07/05/01
<u> </u>	A34.	2002/0107824	08/08/02	Ahmed	706	46	01/08/01
<u> </u>	A35.	2002/0116222	08/22/02	Wurster	705	2	10/22/01
<u> </u>	A36.	2002/0143262	10/03/02	Bardy	600	508	04/04/02
<u> </u>	A37.	2002/0178031	11/28/02	Sorensen	705	2	06/04/01

Examiner:

Donal Byrne

Date Considered:

12/5/05

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

EXPRESS MAIL LABEL NO.: EV 485 808 658 US

Form PTO-1449

Sheet 4 of 19

Applicant: William J. Ketcherside, Jr., et al.

Serial No.: 10/773,106

Att'y Docket No.: 15226.25.1

Filing Date: 02/05/2004

Group: 2632

Confirmation No.: 3980


For: SYSTEM, METHOD, AND COMPUTER PROGRAM FOR
INTERFACING AN EXPERT SYSTEM TO A CLINICAL
INFORMATION SYSTEM

Other Documents

Examiner

Initial*

- D.P. A38. Plaintiff Allcare's Claim Chart Amendments in Response to Stipulated Order Regarding Same, June 27, 2000, 14 pgs
- A39. ALPAY, L., et al., "Model-Based Application: The Galen Structured Clinical User Interface," pp. 307-318
- A40. ARKAD, K., et al., "Medical Logic Module (MLM) representation of knowledge in a ventilator treatment advisory system," *International Journal of Clinical Monitoring and Computing*, 1991, pp. 43-48
- A41. ARMSTRONG, Carl W., "AHA Guide to Computerized Physician Order-Entry Systems," American Hospital Association, November 2000, pp. 1-48
- A42. ASTION, Michael L., et al., "Application of Neural Networks to the Classification of Giant Cell Arteritis," *Arthritis & Rheumatism*, Vol. 37, No. 5, May 1994, pp. 760-770
- A43. ASTION, Michael L., et al., "Neural Networks as Expert Systems in Rheumatic Disease Diagnosis: Artificial Intelligence or Intelligent Artifice?" *The Journal of Rheumatology*, 1993, Vol. 20, No. 9, pp. 1465-1468
- A44. AUSTIN, Tony et al., "A Prototype Computer Decision Support System for the Management of Asthma," *Journal of Medical Systems*, Vol. 20, No. 1, 1996, pp. 45-55

Examiner: 

Date Considered: 12/5/05

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

EXPRESS MAIL LABEL NO.: EV 485 808 658 US

Form PTO-1449

Sheet 5 of 19

Applicant: William J. Ketcherside, Jr., et al.

Serial No.: 10/773,106

Att'y Docket No.: 15226.25.1

Filing Date: 02/05/2004

Group: 2632

Confirmation No.: 3980

For: SYSTEM, METHOD, AND COMPUTER PROGRAM FOR
INTERFACING AN EXPERT SYSTEM TO A CLINICAL
INFORMATION SYSTEM

- D.P.*
- ☒ A45. AYDIN, Carolyn E., et al., "Transforming Information Use in Preventive Medicine: Learning to Balance Technology with the Art of Caring," pp. 563-567, available on information and belief at least as early as 1994
 - ☐ A46. BALAS, E. Andrew et al., "Improving Preventive Care by Prompting Physicians," *Arch Intern Med*, Vol. 160, Feb 14, 2000, pp. 301-308
 - ☐ A47. BALAS, E. Andrew et al., "The Clinical Value of Computerized Information Services—A Review of 98 Randomized Clinical Trials," *Arch Fam Med*, Vol. 5, May 1996, pp. 271-278
 - ☐ A48. BATES, David W., "Using information technology to reduce rates of medication errors in hospitals," *BMJ*, Vol. 320, March 18, 2000, pp. 788-791
 - ☐ A49. BATES, David W., et al., "The Impact of Computerized Physician Order Entry on Medication Error Prevention," *Journal of the American Medical Informatics Association*, July/August 1999, Vol. 6, No. 4, pp. 313-321
 - ☐ A50. BERGER, Jeffrey, "Roentgen: Radiation Therapy and Case-based Reasoning," pp. 171-177
 - ☐ A51. BERNSTEIN, Robert M., et al., "Prompting Physicians For Cost-Effective Test Ordering in The Low Prevalence Conditions of Family Medicine," pp. 824-828, available on information and belief at least as early as 1994
 - ☐ A52. BICHINDARITZ, Isabelle, "A Case-Based Assistant for Clinical Psychiatry Expertise," pp. 673-677
 - ☒ A53. BRICKLEY, Mark R., et al., "Performance of a Neural Network Trained to Make Third-molar Treatment-planning Decisions," pp. 153-160, available on information and belief at least as early as 1994

Examiner:

Date Considered:

David R. Gue *12/5/05*

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

EXPRESS MAIL LABEL NO.: EV 485 808 658 US

Form PTO-1449

Sheet 6 of 19

Applicant: William J. Ketcherside, Jr., et al.

Serial No.: 10/773,106

Att'y Docket No.: 15226.25.1

Filing Date: 02/05/2004

Group: 2632

Confirmation No.: 3980

For: SYSTEM, METHOD, AND COMPUTER PROGRAM FOR
INTERFACING AN EXPERT SYSTEM TO A CLINICAL
INFORMATION SYSTEM

- D.L.*
- A54. BURKE, J.P., et al., "Computer-Assisted Prescribing and its Impact on Resistance," *Antibiotic therapy and control of antimicrobial resistance in hospitals*, pp. 89-95, available on information and belief at least as early as 1999
- A55. BURKE, J.P., et al., "Antibiotic Use and Microbial Resistance in Intensive Care Units: Impact of Computer-Assisted Decision Support," *Journal of Chemotherapy*, Vol. 11, No. 6, 1999, pp. 530-535
- A56. CARENINI, Giuseppe et al., "An Information-Based Bayesian Approach to History Taking," pp. 129-138
- A57. CARSON, E.R., et al., "Evaluating Intelligent Measurement Systems: A Study in Ventilator Management," *IEEE Engineering in Medicine & Biology Society 11th Annual International Conference*, pp. 1769-1770, available on information and belief at least as early as 1989
- A58. CASANOVA, Andrea et al., "Reasoning with Cases in Clinical Problem Solving," pp. 1986-1990, available on information and belief at least as early as 1995
- A59. CHAMBRIN, Marie-Christine et al., "RESPAID: Computer Aided Decision Support for Respiratory Data in I.C.U.," *IEEE Engineering in Medicine & Biology Society 11th Annual International Conference*, pp. 1776-1777, available on information and belief at least as early as 1989
- A60. CHEUNG, John Y., et al., "Detection of Abnormal Electrocardiograms Using a Neural Network Approach," *IEEE Engineering in Medicine & Biology Society 11th Annual International Conference*, pp. 2015-2016, available on information and belief at least as early as 1989
- A61. CLASSEN, David C., et al., "Description of a Computerized Adverse Drug Event Monitor Using a Hospital Information System," *Hospital Pharmacy*, Vol. 27, September 1992, pp. 774, 776-779, 783

Examiner:

Daryl Boyle

Date Considered:

12/5/05

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

EXPRESS MAIL LABEL NO.: EV 485 808 658 US

Form PTO-1449

Sheet 7 of 19

Applicant: William J. Ketcherside, Jr., et al.

Serial No.: 10/773,106

Att'y Docket No.: 15226.25.1

Filing Date: 02/05/2004

Group: 2632

Confirmation No.: 3980

For: SYSTEM, METHOD, AND COMPUTER PROGRAM FOR
INTERFACING AN EXPERT SYSTEM TO A CLINICAL
INFORMATION SYSTEM

-
- D.P. A62. DARMONI, Stéfan J., et al., "Functional Evaluation of Seth: An Expert System in Clinical Toxicology," pp. 231-238, available on information and belief at least as early as 1994
- A63. DAVIS, Randall et al., "Retrospective on 'Production rules as a representation for a knowledge-based consultation program,'" *Artificial Intelligence* 59 (1993), pp. 181-189
- A64. DEJESUS, Edmond X., "Achieving Expert Ease," *Healthcare Informatics: Achieving Expert Ease*, January 2000, pp. 1-10
- A65. DO AMARAL, M.B., et al., "A Psychiatric Diagnostic System Integrating Probabilistic and Categorical Reasoning," *Methods of Information in Medicine*, 1995, Vol. 34, No. 3, pp. 232-243
- A66. DOJAT, Michel et al., "Evaluation of a Knowledge-based System Providing Ventilatory Management and Decision for Extubation," *American Journal of Respiratory and Critical Care Medicine*, Vol. 153, 1996, pp. 997-1004
- A67. DOWNS, Joseph et al., "A Prototype Neural Network Decision-Support Tool for the Early Diagnosis of Acute Myocardial Infarction," pp. 355-366
- A68. DOYLE, H.R., et al., "Building Clinical Classifiers Using Incomplete Observations—A Neural Network Ensemble for Hepatoma Detection in Patients with Cirrhosis," *Methods of Information in Medicine*, 1995, 6 pages
- A69. EBELL, Mark H., "Artificial Neural Networks for Predicting Failure to Survive Following In-Hospital Cardiopulmonary Resuscitation," *The Journal of Family Practice*, Vol. 36, No. 3, pp. 297-303, 1993
-

Examiner:

W. J. Ketcherside, Jr.

Date Considered:

12/5/05

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

EXPRESS MAIL LABEL NO.: EV 485 808 658 US

Form PTO-1449

Sheet 8 of 19

Applicant: William J. Ketcherside, Jr., et al.

Serial No.: 10/773,106

Att'y Docket No.: 15226.25.1

Filing Date: 02/05/2004

Group: 2632

Confirmation No.: 3980

For: SYSTEM, METHOD, AND COMPUTER PROGRAM FOR
INTERFACING AN EXPERT SYSTEM TO A CLINICAL
INFORMATION SYSTEM

- DP*
- A70. ECCLES, Martin et al., "Effect of computerised evidence based guidelines on management of asthma and angina in adults in primary care: cluster randomised controlled trial," *BMJ*, Vol. 325, October 26, 2002, pp. 1-7
- A71. EVANS, Carl D., et al., "A Case-Based Learning Approach to Grouping Cases with Multiple Malformations," *MD Computing*, 1995, Vol. 12, No. 2, pp. 127-136
- A72. EVANS, R. Scott et al., "Improving Empiric Antibiotic Selection Using Computer Decision Support," *Archives of Internal Medicine*, Vol. 154, April 25, 1994, pp. 878-884
- A73. EVANS, R. Scott et al., "Reducing the Duration of Prophylactic Antibiotic Use Through Computer Monitoring of Surgical Patients," *DICP, The Annals of Pharmacotherapy*, April 1990, Vol. 24, pp. 351-354
- A74. EVANS, R. Scott et al., "Preventing Adverse Drug Events In Hospitalized Patients," *The Annals of Pharmacotherapy*, Vol. 28, April 1994, pp. 523-527
- A75. EVANS, R. Scott et al., "Evaluation of a Computer-Assisted Antibiotic-Dose Monitor," *The Annals of Pharmacotherapy*, Vol. 33, October 1999, pp. 1026-1031
- A76. EVANS, R. Scott, et al., "Development Of An Automatic Antibiotic Consultant," *M.D. Computing*, Vol. 10, No. 1, 1993, pp. 17-22
- A77. EVANS, R. Scott et al., "A Computer-Assisted Management Program For Antibiotics and other Antiinfective Agents," *The New England Journal of Medicine*, Vol. 338, No. 4, January 22, 1998, pp. 232-239
- A78. EVANS, R. Scott, et al., "Prevention of Adverse Drug Events through Computerized Surveillance," pp. 437-441
- A79. EVANS, R. Scott, et al., "A Decision Support Tool for Antibiotic Therapy," pp. 651-655

Examiner: *W. J. Ketcherside*

Date Considered: *12/5/05*

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

EXPRESS MAIL LABEL NO.: EV 485 808 658 US

Form PTO-1449

Sheet 9 of 19

Applicant: William J. Ketcherside, Jr., et al.

Serial No.: 10/773,106

Att'y Docket No.: 15226.25.1

Filing Date: 02/05/2004

Group: 2632

Confirmation No.: 3980

For: SYSTEM, METHOD, AND COMPUTER PROGRAM FOR
INTERFACING AN EXPERT SYSTEM TO A CLINICAL
INFORMATION SYSTEM

-
- D.P. A80. EVANS, R. Scott, "Development of a Computerized Infectious Disease Monitor (CIDM)," *Computers and Biomedical Research*, Vol. 18, 1985, pp. 103-113
- A81. FIOCCHI, R et al., "A Neural Support to the Prognostic Evaluation of Cardiac Surgery," pp. 435-436
- A82. GOLDBERG, Dean E., et al., "Computer-based Program For Identifying Medication Orders Requiring Dosage Modification Based On Renal Function," *AJHP*, Vol. 48, September 1991, pp. 1965-1969
- A83. GRIMSON, Jane B, "Integrating Knowledge-based Systems and Databases," *Clinica Chimica Acta*, 1993, Vol. 222, pp. 101-115
- A84. GROSSI, Eugene A., et al., "Use of Artificial Intelligence to analyze clinical database reduces workload on surgical house staff," *Surgery*, Vol. 116, No. 2, pp. 250-254, August 1994
- A85. HABBEMA, "Chapter 18: Predictive Tools for Clinical Decision Support," *Handbook of our Medical Informatics*, pp. 292-305
- A86. HAMAMOTO, Isao et al., "Prediction of the Early Prognosis of the Hepatectomized Patient with Hepatocellular Carcinoma with a Neural Network," *Computer Bio Med.*, Vol. 25, No. 1, 1995, pp. 49-59
- A87. HAMMOND, Peter, "OaSiS: Integrating safety reasoning for decision support in oncology," pp. 185-191
- A88. HARBER, Philip et al., "An Expert System Based Preventive Medicine Examination Adviser," *JOEM*, Vol. 37, No. 5, May 1995, pp. 563-570

Examiner:

Date Considered:

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

EXPRESS MAIL LABEL NO.: EV 485 808 658 US

Form PTO-1449

Sheet 10 of 19

Applicant: William J. Ketcherside, Jr., et al.

Serial No.: 10/773,106

Att'y Docket No.: 15226.25.1

Filing Date: 02/05/2004

Group: 2632

Confirmation No.: 3980

For: SYSTEM, METHOD, AND COMPUTER PROGRAM FOR
INTERFACING AN EXPERT SYSTEM TO A CLINICAL
INFORMATION SYSTEM

- D.P.*
- A89. HENRY, Suzanne Bakken et al., "A Template-based Approach to Support Utilization of Clinical Practice Guidelines Within an Electronic Health Record," *Journal of the American Medical Informatics Association*, Vol. 5, No. 3, May/June 1998, pp. 237-244
- A90. HERAS, J., et al., "TKR-tool: An Expert System for Total Knee Replacement Management," pp. 444-446, available on information and belief at least as early as 1994
- A91. HRIPCSAK, George et al., "The Columbia-Presbyterian Medical Center Decision-Support System as a Model for Implementing the Arden Syntax," *Proceedings of the Annual Symposium on Computer Applications in Medical Care*, 1991, pp. 248-252
- A92. HUNT, Dereck et al., "Effects of Computer-Based Clinical Decision Support Systems on Physician Performance & Patient Outcomes," *JAMA*, Vol. 280, No. 15, October 21, 1998, pp. 1339-1346
- A93. JAMES, Brent C., et al., "Making It Easy To Do It Right," *The New England Journal of Medicine*, Vol. 345, No. 13, September 27, 2001, pp. 991-993
- A94. JOHANSSON, Bo et al., "Arden Syntax As A Standard For Knowledge Bases In The Clinical Chemistry Laboratory," *Clinica Chimica Acta* 222, 1993, pp. 123-128
- A95. JOHNSTON, Mary E., et al., "Effects of Computer-based Clinical Decision Support Systems on Clinician Performance and Patient Outcome—A Critical Appraisal of Research," *Annals of Internal Medicine*, Vol. 120, No. 2, January 15, 1994, pp. 135-142
- A96. KAHAN, B.D., "Frontiers For the Coming Millennium," *Transplantation Proceedings*, Vol. 28, No. 4, (August) 1996, pp. 2299-2306
- A97. KAHN, Charles E, Jr., "Artificial Intelligence in Radiology: Decision Support Systems," *RadioGraphics*, July 1994, Vol. 14, No. 4, pp. 849-861

Examiner:

Date Considered:

D.P.

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

EXPRESS MAIL LABEL NO.: EV 485 808 658 US

Form PTO-1449

Sheet 11 of 19

Applicant: William J. Ketcherside, Jr., et al.

Serial No.: 10/773,106

Att'y Docket No.: 15226.25.1

Filing Date: 02/05/2004

Group: 2632

Confirmation No.: 3980

For: SYSTEM, METHOD, AND COMPUTER PROGRAM FOR
INTERFACING AN EXPERT SYSTEM TO A CLINICAL
INFORMATION SYSTEM

-
- D.P.* A98. KAHN, Charles E, Jr., et al., "Case-based Reasoning and Imaging Procedure Selection," *Investigative Radiology*, Vol. 29, No. 6, June 1994, pp. 643-647
- A99. KAHN, Charles E., Jr., "Planning Diagnostic Imaging Work-up Strategies using Case-Based Reasoning," pp. 931-935
- A100. KANOUI, Henry et al., "A Knowledge-Based Modeling Hospital Information Systems Components," pp. 319-330
- A101. KETCHERSIDE, W. Joseph et al., "Prediction of Survival In Trauma Patients using Probabilistic Neural Networks," 4 pages
- A102. KETIKIDIS, P.H., et al., "ARRES: Computer Assisted Post Anesthesia Care Unit Monitoring System," *IEEE Engineering In Medicine & Biology Society 11th Annual International Conference*, pp. 1855-1856, available on information and belief at least as early as 1989
- A103. KINDLER H., et al., "An Advisor for the Management of the Acute Radiation Syndrome," pp. 386-396
- A104. KUPERMAN, Gilad J., et al., "Detecting Alerts, Notifying the Physician, and Offering Action Items: A Comprehensive Alerting System," pp. 704-708, available on information and belief at least as early as 1996
- A105. KUPERMAN, Gilad J., et al., "HELP: A Dynamic Hospital Information System, 1991, Springer-Verlag New York Inc., ISBN 0-387-97431-8, pp. 1-13, 34-52
- ✓* A106. KUPERMAN, Gilad J., et al., "Representing Hospital Events as Complex Conditionals," pp. 137-141, available on information and belief at least as early as 1995

Examiner:

Daniel Boyle

Date Considered:

12/5/05

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

EXPRESS MAIL LABEL NO.: EV 485 808 658 US

Form PTO-1449

Sheet 12 of 19

Applicant: William J. Ketcherside, Jr., et al.

Serial No.: 10/773,106

Att'y Docket No.: 15226.25.1

Filing Date: 02/05/2004

Group: 2632

Confirmation No.: 3980

For: SYSTEM, METHOD, AND COMPUTER PROGRAM FOR
INTERFACING AN EXPERT SYSTEM TO A CLINICAL
INFORMATION SYSTEM

- D.L.*
- ☒ A107. LARSEN, Robert A., et al., "Improved Perioperative Antibiotic Use and Reduced Surgical Wound Infections Through use of Computer Decision Analysis," *Infect Control Hospital Epidemiol*, Vol. 10, No. 7, 1989, pp. 316-320
 - ☐ A108. LEÃO, Beatriz De F., et al., "Hycones: A Hybrid Approach to Designing Decision Support Systems," *MD Computing*, Vol. 13, No. 2, 1996, pp. 160-164
 - ☐ A109. LEE, Susan Ciarrocca, "Using a Translation—Invariant Neural Network to Diagnose Heart Arrhythmia," *IEEE Engineering in Medicine & Biology Society 11th Annual International Conference*, pp. 2025-2026, available on information and belief at least as early as 1989
 - ☐ A110. LEHMANN, E.D., et al., "Combining Rule-based reasoning and mathematical modelling in diabetes care," *Artificial Intelligence in Medicine* 6 (1994), pp. 137-160
 - ☐ A111. LETTE, Jean et al., "Artificial Intelligence Versus Logistic Regression Statistical Modelling to Predict Cardiac Complications after Noncardiac Surgery," *Clin. Cardiol*, Vol. 17, November 1994, pp. 609-614
 - ☐ A112. LI, Yu-Chuan, et al., "Assessing the Behavioral Impact of a Diagnostic Decision Support System," 1995, pp. 805-809
 - ☐ A113. LIN, Kang-Ping, et al., "Classification of QRS Pattern by an Associative Memory Model," *IEEE Engineering in Medicine & Biology Society 11th Annual International Conference*, pp. 2017-2018, available on information and belief at least as early as 1989
 - ☐ A114. MACERATINI, R., et al., "Expert Systems and the Pancreatic Cancer Problem: decision support in the pre-operative diagnosis," *J. Biomed. Eng.*, November 1989, Vol. 11, pp. 487-510
 - ☒ A115. MACLIN, Phillip S., et al., "How to Improve a Neural Network for Early Detection of Hepatic Cancer," *Cancer Letters*, Vol. 77, 1994, pp. 95-101

Examiner:

Wang Hye

Date Considered:

12/5/05

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

EXPRESS MAIL LABEL NO.: EV 485 808 658 US

Form PTO-1449

Sheet 13 of 19

Applicant: William J. Ketcherside, Jr., et al.

Serial No.: 10/773,106

Att'y Docket No.: 15226.25.1

Filing Date: 02/05/2004

Group: 2632

Confirmation No.: 3980

For: SYSTEM, METHOD, AND COMPUTER PROGRAM FOR
INTERFACING AN EXPERT SYSTEM TO A CLINICAL
INFORMATION SYSTEM

-
- DP*
- ☐ A116. MANN, N. Horace, III, et al., "Artificial Intelligence in the Diagnosis of Low Back Pain," *Orthopedic Clinics of North America*, Vol. 22, No. 2, April 1991, pp. 303-314
 - ☐ A117. MATISOFF, Marty, "Cybernetics, Artificial Neural Networks & Medicine," *Journal of Clinical Engineering* Vol. 20, No. 6, November/December 1995, 7 pages
 - ☐ A118. MCCAULEY, Nancy, et al., "The Use of Expert Systems in the Healthcare Industry," *Information & Management*, Vol. 22., 1992, pp. 227-235
 - ☐ A119. MCDONALD, Clement J., et al., "The Promise of Computerized Feedback Systems for Diabetes Care," *Ann Intern Med*, Vol. 124, 1996, pp. 170-174
 - ☐ A120. METZGER, Jane, et al., "Clinical Decision Support for the Independent Physician Practice," *ihealthreports*, California HealthCare Foundation, First Counseling Group, October 2002, pp. 1-41
 - ☐ A121. MOLINO, G., et al., "Design of a Computer-assisted Programme Supporting The Selection and Clinical Management of Patients Referred for Liver Transplantation," *Ital J Gastroenterol*, Vol. 26, 1994, pp. 31-43
 - ☐ A122. MONANE, Mark, et al., "Improving Prescribing Patterns for the Elderly Through an Online Drug Utilization Review Intervention: A System Linking the Physician, Pharmacist, and Computer," *JAMA*, Vol. 280, No. 14, October 14, 1998, pp. 1249-1252
 - ☐ A123. MUSEN, Mark A., et al., "A Component-Based Architecture for Automation of Protocol-Directed Therapy," pp. 3-13
 - ☒ A124. MUSEN, Mark A., et al., "Medical Informatics: Computer Applications in Health Care and Biomedicine," Chapter 16: Clinical Decision – Support Systems, pp. 572-609
-

Examiner:

David Rye

Date Considered:

12/5/05

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

EXPRESS MAIL LABEL NO.: EV 485 808 658 US

Form PTO-1449

Sheet 14 of 19

Applicant: William J. Ketcherside, Jr., et al.

Serial No.: 10/773,106

Att'y Docket No.: 15226.25.1

Filing Date: 02/05/2004

Group: 2632

Confirmation No.: 3980

For: SYSTEM, METHOD, AND COMPUTER PROGRAM FOR
INTERFACING AN EXPERT SYSTEM TO A CLINICAL
INFORMATION SYSTEM

-
- DP*
- A125. MUSEN, Mark A., et al., "A Rational Reconstruction of INTERNIST—I using PROTÉGÉ-II," pp. 289-293, available on information and belief at least as early as 1995
- A126. PESTOTNIK, Stanley L., et al., "Implementing Antibiotic Practice Guidelines through Computer-Assisted Decision Support: Clinical and Financial Outcomes," *Annals of Internal Medicine*, Vol. 124, No. 10, May 15, 1996, pp. 884-890
- A127. PESTOTNIK, Stanley L., et al., "Prospective Surveillance of Imipenem/Cilastatin Use and Associated Seizures Using a Hospital Information System," *The Annals of Pharmacotherapy*, Vol. 27, April 1993, pp. 497-501
- A128. PESTOTNIK, Stanley L., et al., "Therapeutic Antibiotic Monitoring: Surveillance Using a Computerized Expert System," *The American Journal of Medicine*, Vol. 88, January 1990, pp. 43-48
- A129. PIETKA, Ewa, "Neural Nets for ECG Classification," *IEEE Engineering in Medicine & Biology Society 11th Annual International Conference*, pp. 2021-2022, available on information and belief at least as early as 1989
- A130. PRYOR, T. Allan, et al., "Sharing MLM's: An Experiment Between Columbia-Presbyterian and LDS Hospital," *Proceedings - The Annual Symposium on Computer Applications in Medical Care*, pp. 399-403, available on information and belief at least as early as 1994
- A131. PRYOR, T. Allan, "The Help Medical Record System," *M.D. Computing*, 1988, Vol. 5, No. 5, pp. 22-33
- A132. PRYOR, T. A., et al., "The HELP System," *Journal of Medical Systems*, Vol. 7, No. 2, 1983, pp. 87-102
-

Examiner:

Daniel Bue

Date Considered:

12/5/05

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

EXPRESS MAIL LABEL NO.: EV 485 808 658 US

Form PTO-1449

Sheet 15 of 19

Applicant: William J. Ketcherside, Jr., et al.

Serial No.: 10/773,106

Att'y Docket No.: 15226.25.1

Filing Date: 02/05/2004

Group: 2632

Confirmation No.: 3980

For: SYSTEM, METHOD, AND COMPUTER PROGRAM FOR
INTERFACING AN EXPERT SYSTEM TO A CLINICAL
INFORMATION SYSTEM

-
- D.P.* A133. RASCHKE, Robert A., et al., "A Computer Alert System to Prevent Injury From Adverse Drug Events: Development and Evaluation in a Community Teaching Hospital," *JAMA*, Vol. 280, No. 15, October 21, 1998, pp. 1317-1320
- A134. RECTOR, Al, et al., "Shedding Light on Patients' Problems: Integrating Knowledge Based Systems Into Medical Practice," pp. 531-534
- A135. SABBATINI, Renato M. E., "Using Neural Networks for Processing Biologic Signals," *Computing in Brazil*, pp. 152-159
- A136. SAFRAN, Charles, et al., "Development of a Knowledge-based Electronic Patient Record," *MD Computing*, Vol. 13, No. 1, 1996, pp. 46-54, 63
- A137. SARANUMMI, Niilo, et al., "Knowledge-based Systems in Medicine---a Nordic Research and Development Programme," *Computer Methods and Programs in Biomedicine*, Vol. 34, 1991, pp. 81-89
- A138. SCHIFF, Gordon D., et al., "Computerized Prescribing: Building the Electronic Infrastructure for Better Medication Usage," *JAMA*, Vol. 279, No. 13, April 1, 1998, pp. 1024-1029
- A139. SCHIOLER, Thomas, et al., "Information Technology Factors in Transferability of Knowledge based systems in Medicine," *Artificial Intelligence in Medicine*, Vol. 6, 1994, pp. 189-201
- A140. SCHLOERB, Paul R., "Electronic Parenteral and Enteral Nutrition," *Journal of Parenteral and Enteral Nutrition*, February 2000, Vol. 24, No. 1, pp. 23-29
- A141. SCHMIDT, R., et al., "Adaptation and Abstraction in a Case-based Antibiotics Therapy Adviser," pp. 209-217
-

Examiner: *David Kye*

Date Considered: *12/5/05*

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

EXPRESS MAIL LABEL NO.: EV 485 808 658 US

Form PTO-1449

Sheet 16 of 19

Applicant: William J. Ketcherside, Jr., et al.

Serial No.: 10/773,106

Att'y Docket No.: 15226.25.1

Filing Date: 02/05/2004

Group: 2632

Confirmation No.: 3980

For: SYSTEM, METHOD, AND COMPUTER PROGRAM FOR
INTERFACING AN EXPERT SYSTEM TO A CLINICAL
INFORMATION SYSTEM

-
- Df.* A142. SHABOT, M. Michael, et al., "Inferencing Strategies for Automated ALERTS on Critically Abnormal Laboratory and Blood Gas Data," 4 pages
- A143. SHAHAR, Yuval, "Automated Support to Clinical Guidelines and Care Plans: The Intention—Oriented View," pp. 1-6
- A144. WHITE, Stuart C., "Decision-support Systems in Dentistry," *Journal of Dental Education*, Vol. 60, No. 1, January 1996, pp. 47-63
- A145. SHORTLIFFE, Edward H., "The Adolescence of AI in Medicine: Will the field come of age in the '90s?*", *Artificial Intelligence in Medicine*, Vol. 5, 1993, pp. 93-106
- A146. SINNOTT, Margaret M., et al., "Knowledge based lipid management system for general practitioners," *Clinica Chimica Acta*, Vol. 222, 1993, pp. 71-77
- A147. SONDAK, V. K., et al., "New Directions for Medical Artificial Intelligence," *Computers Math. Applic.*, Vol. 20, No. 4-6, 1990, pp. 313-319
- A148. SPEIGHT, P.M., et al., "The Use of Artificial Intelligence to Identify People at Risk of Oral Cancer and Precancer," *Br. Dental*, Vol. 179, 1995, pp. 382-387
- A149. STEFANELLI, Mario, "European Research Efforts in Medical Knowledge-based Systems," *Artificial Intelligence in Medicine*, Vol. 5, 1993, pp. 107-124
- A150. XUE, Qiuzhen, et al., "A Neural Network Weight Pattern study with ECG Pattern Recognition," *IEEE Engineering in Medicine & Biology Society 11th Annual International Conference*, pp. 2023-2024, available on information and belief at least as early as 1989
- A151. SZOLOVITS, Peter, et al., "Categorical and Probabilistic Reasoning in Medicine Revisited," *Artificial Intelligence*, Vol. 59, 1993, pp. 167-180
-

Examiner:

David Boyle

Date Considered:

12/5/05

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

EXPRESS MAIL LABEL NO.: EV 485 808 658 US

Form PTO-1449

Sheet 17 of 19

Applicant: William J. Ketcherside, Jr., et al.

Serial No.: 10/773,106

Att'y Docket No.: 15226.25.1

Filing Date: 02/05/2004

Group: 2632

Confirmation No.: 3980

For: SYSTEM, METHOD, AND COMPUTER PROGRAM FOR
INTERFACING AN EXPERT SYSTEM TO A CLINICAL
INFORMATION SYSTEM

-
- DL A152. TANG, Paul, C., et al., "ActiveGuidelines: Integrating Web-Based Guidelines with Computer-Based Patient Records," 5 pages
- A153. THOREUX, P.H., et al., "A Microcomputer Teaching and Decision-Support System for Emergency Medicine: Use of Hypermedia and Artificial Intelligence in Combination," *Med. Inform.*, Vol. 21, No. 1, 1996, pp. 35-43
- A154. TIERNEY, William M., et al., "Computerizing Guidelines to Improve Care and Patient Outcomes: The Example of Heart Failure," *JAMIA*, Vol. 2, No. 5, Sep/Oct 1995, pp. 316-322
- A155. TONG, D.A., et al., "WEANPRO: A Weaning Protocol Expert System," *IEEE Engineering In Medicine & Biology Society 11th Annual International Conference*, pp. 1857-1858, available on information and belief at least as early as 1989
- A156. TORASSO, Pietro, "A Report on Medical Expert Systems Research in Italy," *Artificial Intelligence in Medicine*, Vol. 2, 1990, pp. 43-53
- A157. UCKUN, Serdar, "Artificial Intelligence in Medicine: State-of-the-art and Future Prospects," *Artificial Intelligence in Medicine*, Vol. 5, 1993, pp. 89-91
- A158. VAN BEMMEL, J.H., "Handbook of Medical Informatics," Houten/Diegem, 1997, pp. 232-260
- A159. VAN DYNE, M. M., et al., "Using Machine Learning and Expert Systems to Predict Preterm Delivery in Pregnant Women," pp. 344-350, available on information and belief at least as early as 1994
- ✓ A160. WAGNER, Michael M., et al., "Clinical Event Monitoring at the University of Pittsburgh," 6 pages
-

Examiner:

Daryl Byrle

Date Considered:

12/5/05

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

EXPRESS MAIL LABEL NO.: EV 485 808 658 US

Form PTO-1449

Sheet 18 of 19

Applicant: William J. Ketcherside, Jr., et al.

Serial No.: 10/773,106

Att'y Docket No.: 15226.25.1

Filing Date: 02/05/2004

Group: 2632

Confirmation No.: 3980

For: SYSTEM, METHOD, AND COMPUTER PROGRAM FOR
INTERFACING AN EXPERT SYSTEM TO A CLINICAL
INFORMATION SYSTEM

D.L.

A161. WANG, Shengrui, et al., "An Intelligent Interactive Simulator of Clinical Reasoning in General Surgery," pp. 419-423

A162. WOLFRAM, D.A., "An Appraisal of INTERNIST-I," *Artificial Intelligence in Medicine*, Vol. 7, 1995, pp. 93-116

A163. ZHAO, Y. K., et al., "Design and Development of an Expert System to Assist Diagnosis and Treatment of Chronic Hepatitis Using Traditional Chinese Medicine", *Med. Inform.*, Vol. 19, No. 1, 1994, pp. 37-45

Examiner:

Daryl Bue

Date Considered:

12/8/05

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

EXPRESS MAIL LABEL NO.: EV 485 808 658 US

Form PTO-1449

Sheet 19 of 19

Applicant: William J. Ketcherside, Jr., et al.

Serial No.: 10/773,106

Att'y Docket No.: 15226.25.1

Filing Date: 02/05/2004

Group: 2632

Confirmation No.: 3980

For: SYSTEM, METHOD, AND COMPUTER PROGRAM FOR
INTERFACING AN EXPERT SYSTEM TO A CLINICAL
INFORMATION SYSTEM

References Cited by Applicants

While the filing of Information Disclosure Statements is voluntary, the procedure is governed by the guidelines of Section 609 of the Manual of Patent Examining Procedure and 37 C.F.R. §§ 1.97 and 1.98. To be considered a proper Information Disclosure Statement, Form PTO-1449 shall be accompanied by a copy of each listed patent or publication or other item of information and a translation of the pertinent portions of foreign documents (if an existing translation is readily available to the applicant), an explanation of relevance of each reference not in the English language, and should be submitted in a timely manner as set out in MPEP Sec. 609.

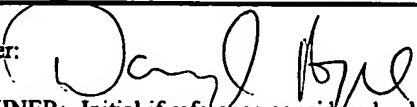
Examiners will consider all citations submitted in conformance with 37 C.F.R. § 1.98 and MPEP Sec. 609 and place their initials adjacent the citations in the spaces provided on this form. Examiners will also initial citations not in conformance with the guidelines which may have been considered. A reference may be considered by the Examiner for any reason whether or not the citation is in full conformance with the guidelines. A line will be drawn through a citation if it is not in conformance with the guidelines AND has not been considered. A copy of the submitted form, as reviewed by the Examiner, will be returned to the applicant with the next communication. The original of the form will be entered into the application file.

Each citation initialed by the Examiner will be printed on the issued patent in the same manner as references cited by the Examiner on Form PTO-892.

The reference designations "A1," "A2," etc. (referring to Applicant's reference 1, Applicant's reference 2, etc.) will be used by the Examiner in the same manner as Examiner's reference designations "A," "B," "C," etc. on Office Action Form PTO-1142.

KC0000003331V001

Examiner:



Date Considered:



*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.